

SAFETY DATA SHEET		
	Heydi Special Cement X	

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued	31.10.2011
Revision date	26.11.2012

1.1. Product identifier

Product name	Heydi Special Cement X
Article no.	116,118
GTIN No.	7054150000109, 7054150000123
NOBB No.	10157014, 10157030

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance / preparation	Waterproofing of masonry and concrete. Component to the Hey'di Special.
------------------------------------	---

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	Hey'di AS
Office address	Tretjerndalsvegen 68
Postcode	N-2016
City	Frogner
Country	Norway
Telephone number	+47 63868800
Email	heydi@heydi.no
Website	www.heydi.no
Enterprise No.	979657919
Contact person	Dan Faye

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 22 59 13 00 Description: The National Poisons Information Centre
---------------------	---

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC	Xi; R37/38,R41
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Dam. 1; H318 Eye Irrit. 2; H315 STOT SE3; H335
Substance / mixture hazardous properties	The product contains cement mixed with water are corrosive to skin and eyes. The cement is reduced chromium.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	Aluminous cement 60 – 100 %, Portland cement 10 – 30 %, Calcium Oxide 1 – 10 %
Signal word	Danger
Hazard statements	H318 Causes Serious eye damage. H315 Causes Skin irritation. H335 May cause respiratory irritation.
Precautionary statements	P102 Keep out of reach of children. P260 Do not breathe dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/attention. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P501 Dispose of contents / container to licensed waste disposal site in accordance with local Waste Disposal Authority.

2.3. Other hazards

PBT / vPvB	This product does not contain any PBT or vPvB substances.
Description of hazard	Irritating to respiratory system and skin. Risk of serious damage to eyes. The product contains cement mixed with water are corrosive to skin and eyes.
Hazard description, general	See section 8.
Health effect	Dust or splashes from the mixture may cause permanent eye damage. Dust may irritate throat and respiratory system and cause coughing.
Environmental effects	The product is not classified as environmentally harmful. Spills and contamination should be avoided. In contact with water the product hardens to a solid mass that is not biodegradable.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Aluminous cement	CAS No.: 65997-16-2 EC No.: 226-045-5		60 – 100 %
Portland cement	CAS No.: 65997-15-1 EC No.: 266-043-4	Xi R37/38,R41 Eye Dam. 1;H318 Skin Irrit. 2;H315 STOT SE3;H335	10 – 30 %
Calcium Oxide	CAS No.: 1305-78-8 EC No.: 215-138-9 REACH Reg. No.: 01-2119475325-36	Xi; R37, R38, R41 Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE3;H335	1 – 10 %
Description of the mixture	Data Sheet indicates the product's characteristics in the dry condition. The product contains cement which, when mixed with water can be corrosive to skin and eyes. The cement is chrome reduced. See section 11 for further comments.		
Reason for substance inclusion in the SDS	Aluminous cement are not classified as hazardous, but mixed with water it can be irritating to skin and eyes.		
Substance comments	The full text for all R- and H-phrases are displayed in section 16.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination. Contaminated clothing should be removed immediately. Get medical attention if any discomfort continues.
Inhalation	Fresh air. Keep breathing, seek medical attention if irritation persists.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	When small amounts (a mouthful or less): Rinse mouth with water. Drink water or milk. Contact your doctor for evaluation. For larger quantities than described above: Rinse mouth with water. Drink water or milk. Seek immediate medical attention. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel	Taking the product to be treated as chemical burns.
----------------------------------	---

4.3. Indication of any immediate medical attention and special treatment needed

Other information	General health check.
-------------------	-----------------------

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Elected in relation to the surrounding fire.
Improper extinguishing media	Do not use water jet with fire-extinguishing as this may spread the moist / wet material.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Not flammable under the laws of flammable products.
----------------------------	---

5.3. Advice for firefighters

Personal protective equipment	Protective clothing – fire water can be corrosive to skin and eyes.
Other information	Move container from fire area if possible without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Use specified protective equipment. Avoid inhalation of dust. Avoid contact with skin and eyes. Use recovery methods that make minimal dust.
------------------------------	--

6.1.1. For non-emergency personnel

Personal precautions	Use the specified safety equipment. See section 8.
----------------------	--

6.1.2. For emergency responders

For emergency responders	Use the specified safety equipment. See section 8
--------------------------	---

6.2. Environmental precautions

Environmental precautionary measures	Collect and dispose of spillage as indicated in section 13.
--------------------------------------	---

6.3. Methods and material for containment and cleaning up

Cleaning method	Use a suitable vacuum equipment whenever it's possible.
Other information	Larger quantities collected and delivered to approved receiving station for hazard waste. Small quantities taken up mechanically, avoiding dust formation.

6.4. Reference to other sections

Other instructions	See section 1 for emergency contact information. See section 8 for information on appropriate personal equipment. See section 13 for waste disposal.
--------------------	--

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Follow the instructions. Bags should be handled carefully and stacked well. Avoid dust-forming processing.
----------	--

Protective safety measures

Preventitive measures to protect the environment	Do not discharge into drains, soil or streams.
Advice on general occupational hygiene	First-aid equipment, including eye wash bottle, must be available at the work site. Provide easy access to water supply or an emergency shower. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in dry, sealed container.
Special risks and properties	Avoid contact and inhalation of the powder.
Other Information	The cement is chrome reduced, but after 1 year may be allergenic. See section 11 for further information the.
Conditions to avoid	Avoid contact with moisture and influence of weather.

7.3. Specific end use(s)

Specific use(s)	Component to the Hey'di Special. These items are part of s sealing process which, if properly carried out, will always result in a permanently waterproof surface.
-----------------	--

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Other Information about threshold limit values	Follow the mandatory workplace exposure limits for all types of airborne dust (eg. Total dust, respirable dust, respirable crystalline silica dust).
--	--

Substance	Identification	Exposure limits	TWA Year
Aluminous cement	CAS No.: 65997-16-2 EC No.: 226-045-5	Limit value (8 h) : 10 mg/m ³ Exposure limit letter Letter description: total dust Source: ACGIH PEL Limit value (8 h) : 5 mg/m ³ Exposure limit letter Letter code: respirable dust Source: ACGIH PEL	TWA Year: 2010
Portland cement	CAS No.: 65997-15-1 EC No.: 266-043-4	Limit value (8 h) : 5 mg/m ³	TWA Year: 2010
Calcium Oxide	CAS No.: 1305-78-8 EC No.: 215-138-9 REACH Reg. No.: 01-2119475325-36	Limit value (8 h) : 1 mg/m ³ Limit value (short term) Value: 4 mg/m ³ Exposure limit letter Letter description: 15 min	TWA Year: 2010

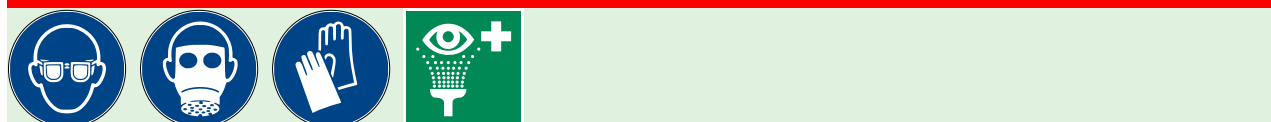
Substance	Calcium Oxide
Exposure guidelines	Country of origin: Tyskland
Substance	Calcium Oxide
DNEL	Group: Consumer

PNEC	<p>Route of exposure: Short term (acute) – Dermal – Systemic effect Value: 4 mg/m³</p>
	<p>Group: Consumer Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 1 mg/m³</p>
	<p>Group: Consumer Route of exposure: Water Exposure frequency: Long-term (repeated) Type of effect: Systemic effect Value: 370 µg/l</p>
	<p>Group: Consumer Route of exposure: Sewage treatment plant STP Exposure frequency: Short term (acute) Type of effect: Systemic effect Value: 816 mg/l</p>

8.2. Exposure controls

Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
Limitation of exposure on workplace	Eye wash station should be at the workplace. Take advantage of the recommended protective equipment and clothing. Good general ventilation and local exhaust ventilation.

Safety signs



Precautionary measures to prevent exposure

Instruction on measures to prevent exposure	The usual precautions for handling chemicals should be followed. Wear proper protective equipment.
---	--

Respiratory protection

Respiratory protection	Wear a dust mask P2 class at work that involves dust.
Reference to relevant standard	EN 143

Hand protection

Hand protection	Use gloves made of butyl, neoprene or Viton.
Reference to relevant standard	EN 374
Breakthrough time	Value: Permeability of time for the aforementioned glove material is usually > 480 min. (wet material)

Eye / face protection

Eye protection	If risk of splashing, wear safety goggles or face shield.
Reference to relevant standard	EN 166

Skin protection

Skin protection (except hands)	Overall suit shall be used where the work involves smudging to such an extent that ordinary working clothes do not protect the skin against contact with the product.
Reference to relevant standard	EN 340

Hygiene / environmental

Specific hygiene measures	Use appropriate skin cream to prevent drying of skin. Wash at the end of each work shift and before eating, smoking and using the toilet.
---------------------------	---

Exposure controls

Safety measures for consumer use of the chemical	Follow the label instructions.
--	--------------------------------

Other information

Other information	Contaminated clothes should be laundered before reuse.
-------------------	--

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Power
Colour	Light gray
Odour	None.
Odour limit	Comments: Not known.
pH	Status: In aqueous solution Value: ~ 9,5 – 11,5 Comments: Mingled with water
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not applicable.
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not applicable.
Flammability	Not applicable.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Relative density	Value: ~ 1500 kg/m ³
Solubility description	Miscible with water.
Solubility in water	Not known.

Solubility in fat	Not relevant.
Solubility in organic solvents	Name: Not known
Partition coefficient: n-octanol/ water	Comments: Not known.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Comments: Not known.
Viscosity	Comments: Not relevant.

Physical hazards

Properties	Not relevant
Oxidising properties	Not relevant.

9.2. Other information

Miscibility	Not known.
Conductivity	Comments: Not relevant.
Dropping point	Comments: Not relevant.
Solvent content	Comments: Not applicable.
Water reactivity	Not known.
Air reactive	Not known.
Permeation rate	Comments: Not known.
Pour point	Comments: Not applicable.
Particle size	Value: 1 mm
Critical pressure	Comments: Not applicable.
Expansion coefficient	Comments: Not applicable.
Saturation concentration	Not relevant.
Odour limit	Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The product cures by moisture.
------------	--------------------------------

10.2. Chemical stability

Stability	Stable under recommended storage conditions – see Section 7.
-----------	--

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous decomposition products if proper storage and handling. For prolonged storage may form small amounts of carbon monoxide.
------------------------------------	--

10.4. Conditions to avoid

Conditions to avoid	The product will harden into a hard mass in contact with water and moisture.
---------------------	--

10.5. Incompatible materials

Materials to avoid	Strong acids.
--------------------	---------------

10.6. Hazardous decomposition products

Hazardous decomposition products	Not known.
----------------------------------	------------

Other information

Other information	The powder reacts with water to form strongly alkaline solution of calcium hydroxide. Mortar hardens after a short time.
-------------------	--

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance	Aluminous cement
Skin corrosion / irritation	No irritant effect. (OECD 404)
Serious eye damage / irritation	No irritating. (OECD 405)
Respiratory or skin sensitisation	Does not contain measurable amounts of soluble Chromium VI.
Substance	Portland cement
Inhalation	Irritating to respiratory system.
Skin corrosion / irritation	Concrete in contact with wet skin may cause damage to swelling and cracking. Prolonged contact with moist skin may cause corrosive damage.
Serious eye damage / irritation	Dust or spray from wet cement can cause permanent eye damage. Immediate first aid is required.
Respiratory or skin sensitisation	Irritation of the digestive system may occur if you swallow large amounts of cement.
Substance	Calcium Oxide
Acute toxicity	<p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: > 2000 mg/kg bw Animal test species: (OECD 425 rat)</p> <p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 2500 mg/kg bw Animal test species: OECD 402 rabbit Comments: These results can be transferred to calcium oxide, which is formed in contact with moisture, calcium hydroxide.</p>
Inhalation	No data available.

Ingestion	Not acutely toxic.
Skin corrosion / irritation	Calcium oxide is irritating to the skin (in vivo, rabbits).
Serious eye damage / irritation	As a result of studies (in vivo, rabbit) calcium can lead to serious eye damage (H318 – caused serious damage to eyes, R41 – Risk of serious eye injury).
Respiratory or skin sensitisation	On the basis of pH, Calcium is not sensibiliterende.
Mutagenicity	Gentoksiske potensialet av kalsium er ikke kjent (bakteriell reverse mutasjonsanalyse (Ames test, OECD 471): negative)
Carcinogenicity, other information	This substance has no evidence of carcinogenic properties.
Reproductive toxicity	Because of the pH effect, there is no evidence of a reproductive risk.
STOT-single exposure	Calcium oxide is irritating to the respiratory system. (SEN SE 3 (H335 – can irritate the respiratory system, R37 – irritating to the respiratory tract)).
STOT-repeated exposure	Not relevant.
Aspiration hazard	Not relevant.

Other information regarding health hazards

General	The addition of water can be corrosive mixture on the skin and eyes. The cured product is considered not to cause any health hazards.
---------	---

Acute toxicity, Mixture estimate

Distribution	Not known.
Metabolism	Not known.
Toxicokinetics	Not known.

Potential acute effects

Inhalation	High concentrations of dust may irritate throat and respiratory system and cause coughing.
Skin contact	Dust can irritate the skin. Dust reacts with moisture on the skin of calcium hydroxide. Moist / wet material can be corrosive to skin and mucous membranes. Repeated or prolonged contact may cause skin dryness or cracking.
Eye contact	Risk of serious damage to eyes. Splash in eyes may cause corrosive damage.
Ingestion	The lower intake is impossible to prove any particular damage. Ingestion of large quantities may cause large irritation to mounth, throat and digestive system.
Aspiration hazard	Not applicable.

Delayed effects / repeated exposure

Sensitisation	The product is not classified as allergenic, but allergic reactions can occur as a result of the cement can contain small amounts of Chromates. The cement is chrome reduced to approximately 1 year.
Chronic effects	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity, other information	Not known.
Mutagenicity	Not known.
Teratogenic properties	Ikke kjent.
Reproductive toxicity	Not known.

Symptoms of exposure

Symptoms of overexposure	Inhalation of cement dust may aggravate existing respiratory disorders.
Other information	Health hazard is dependent on the use and protection measures.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	LC50 values for toxicity in water is not proven. However, mixing of cement in water increase the water's pH level and therefore have some toxic effect on life in the water under certain conditions.
-------------	---

Toxicological data for substances

Substance	Aluminous cement
Aquatic, comments	Not expected to bioaccumulate.
PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
Substance	Portland cement
Aquatic, comments	Not expected to bioaccumulate.
Substance	Calcium Oxide
Aquatic toxicity, fish	Value: 50,6 mg/l Test duration: 96h Species: freshwater fish Method: LC50
Aquatic toxicity, algae	Value: 184,57 mg/l Test duration: 72h Species: freshwater alga Method: EC50
Aquatic toxicity, crustacean	Value: 49,1 mg/l Test duration: 48h Species: spineless freshwater organism Method: EC50
Aquatic, comments	The measurings are made on Calcium dihydroxide.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	Not relevant for inorganic substances.
Biodegradability	Comments: The product is not biologically degradable.
Chemical oxygen demand (COD)	Comments: Not known.

Biological oxygen demand (BOD)	Comments: Not known.
Persistence and degradability, comments	The product is not biodegradable, but will harden in contact with water.

12.3. Bioaccumulative potential

Bioaccumulative potential	No bioaccumulation is indicated.
---------------------------	----------------------------------

12.4. Mobility in soil

Mobility	Not known.
Surface tension	Comments: Not known.
Water solubility	Comments: Miscible with water.

12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.
------------------------	---

12.6. Other adverse effects

Environmental details, summation	Do not empty into drains or other waterways.
----------------------------------	--

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Cured material is not hazardous waste. Dispose of according to local regulations on municipal garbage dump. Concrete debris and waste can be recycled or used as filling material. The hazardous wastes listed (EWC) is the guide below. User must set the appropriate EWC code for use varies.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	No
EWC waste code	EWC: 150101 paper and cardboard packaging EWC: 170101 concrete EWC: 101314 waste concrete and concrete sludge
NORSAS	7132
Other information	Contaminated packaging should be emptied of debris. It may be clean for recycling. Uncleaned packaging must be removed as product.

SECTION 14: Transport information

14.1. UN number

Comments	Not relevant.
----------	---------------

14.2. UN proper shipping name

Comments	Not relevant.
----------	---------------

14.3. Transport hazard class(es)**14.4. Packing group**

Comments	Not relevant.
----------	---------------

14.5. Environmental hazards

Comments	Not relevant. See section 12 for more information.
----------	--

14.6. Special precautions for user**14.7. Maritime transport in bulk according to IMO instruments****Additional information**

Additional information	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
------------------------	---

SECTION 15: Regulatory information**Hazard symbol**

Irritant

R-phrases

R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.

S-phrases

S2 Keep out of the reach of children.
S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**References (laws/regulations)**

EU Regulation No. 1907/2006 (REACH) Title IV, art. 31 and Annex II.
EU Regulation on classification labeling and packaging of substances and preparations (abbreviated CLP) (EC) No 1272/2008
Annex XIV – List of substances subject to authorization. Substances that give great cause for concern.
Annex XVII – Restrictions on the production, marketing and use of certain hazardous substances.
Occupational exposure limits, guidance No 361 with changes
EU Waste regulation (EU) nr. 413/2010 with changes
ADR / RID 2011 Regulation No. 384 01 April 2009.

Comments

REACH information: All ingredients in Heydi products are already registered, or

recorded by our upstream suppliers or excluded from regulation and / or exempt from registration.

Declaration No. 24081

15.2. Chemical safety assessment

SECTION 16: Other information

Supplier's notes	The information in this data sheet has been prepared on the basis of information from contractors, according to information in our possession on the last day for review. This information is intended as a guidance for safe handling, processing, storage and transport. It is assumed that the product is used as described on the package or other technical description prepared by Hey'di AS. Any other use of the product, possibly in combination with other products or business process is at your own risk.
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Irrit. 2; H315; Eye Dam. 1; H318; STOT SE3; H335;
List of relevant R-phrases (under headings 2 and 3).	R37 Irritating to respiratory system. R37/38 Irritating to respiratory system and skin. R38 Irritating to skin. R41 Risk of serious damage to eyes.
List of relevant H-phrases (Section 2 and 3)	H315 Causes Skin irritation. H318 Causes Serious eye damage. H335 May cause respiratory irritation.
Key literature references and sources for data	CAS-No. 65997-15-1 Classification European Cement Association, Cembureau (www.cembureau.eu).
Prepared by	Marit Taraldset